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FORMULA INDEX.

THE following index of organic compounds of known empirical formula is arranged according to Richter's system (see *Lexikon der Kohlenstoff-Verbindungen*).

The elements are given in the order C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged—

Firstly, in groups according to the number of carbon atoms (thus C_1 group, C_2 group, etc.).

Secondly, according to the number of other elements besides carbon contained in the molecule (thus 5 IV indicates that the molecule contains five carbon atoms and four other elements).

Thirdly, according to the nature of the elements present in the molecule (given in the above order).

Fourthly, according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides, and cyanides of quaternary ammonium bases, however, are registered as group-substances.

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C_2H_6OTe Dimethyltelluronium oxide, and its silver salt (VERNON), 94, 889.

$C_2H_6O_2Te$ Dimethyltellurone, preparation of (VERNON), 894.

$C_2H_6Cl_2Te$ Dimethyltelluronium dichlorides (VERNON), 98.

$C_2H_6Br_2Te$ Dimethyltelluronium dibromides (VERNON), 96.

C_2H_6IAs Dimethyliodoarsine, preparation of (BURROWS and TURNER), 1376.

$C_2H_6I_2Te$ Dimethyltelluronium di-iodides (VERNON), 90.

$C_2H_7ON_3$ Methylsemicarbazides, and their oxalates (FORSTER and SAVILLE), 759.

$C_2H_8O_2Te$ Dimethyltelluronium dihydroxide (VERNON), 897.

2 IV

$C_2H_5OCl_2As$ Ethoxydichloroarsine (MCKENZIE and WOOD), 406.

C_3 Group.

$C_3H_4O_4$ Malonic acid, rate of decomposition of (HINSHELWOOD), 156.

$C_3H_5N_3$ Aminoglyoxaline, dipicrate of (FARGHER), 673.

$C_3H_6O_2$ Methyl acetate, synthesis of, from methyl chloride (WHISTON), 183.

3 III

C_3H_3ON Cyanoacetamide, condensation of aldehydes with (DAY and THORPE), 1465.

$C_3H_5O_2Cl$ Ethyl chloroformate, action of pyridine and quinoline with (HOPKINS), 278.

C_3H_9ITe Trimethyltelluronium iodide, preparation of (VERNON), 894.

3 IV

$C_3H_3O_3N_2S$ Glyoxalinesulphonic acid, and its salts (PYMAN and RAVALD), 1430.

C_4 Group.

$C_4H_6O_6$ *r*-Tartaric acid, resolution of, by means of *l*-borneol (WREN, WILLIAMS, and MYDDLETON), 191.

$C_4H_7N_3$ 4-Amino-5-methylglyoxaline, and its salts (FARGHER), 675.

C_4H_8O *n*-Butaldehyde, condensations of (WEIZMANN and GARRARD), 324.

$C_4H_{10}O$ *n*-Butyl alcohol, condensations of (WEIZMANN and GARRARD), 324.

$C_4H_{13}N_3$ Diethylenetriamine, and its salts (FARGHER), 1351.

4 III

$C_4H_6OCl_2$ αβ-Dichlorovinyl ethyl ether, preparation of, and its synthetic uses (CROMPTON and VANDERSTICHELE), 691.

$C_4H_8Cl_4S$ $\beta\beta'$-Dichlorodiethyl sulphide (GIBSON and POPE), 271; syntheses with (DAVIES), 297; estimation of, volumetrically (HOLLELY), 898.

$C_4H_8Cl_4Se$ $\beta\beta'$-Dichloroethyl selenide dichloride (BAUSOR, GIBSON, and POPE), 1454.

C_4H_9NS 1:4-Thiazan, and its salts (DAVIES), 306.

$C_4H_{12}O_2Te$ Dimethyltelluronium dimethoxide (VERNON), 897.

$C_4H_{12}NI$ Tetramethylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1312.

4 IV

$C_4H_8OCl_2S$ $\beta\beta'$-Dichloroethyl sulphoxide (GIBSON and POPE), 277.

$C_4H_8O_5N_2S$ Carbomethoxy-ψ-thiocarbamide bicarbonate (DIXON and KENNEDY), 85.

$C_4H_{10}O_2ClAs$ Diethoxychloroarsine (MCKENZIE and WOOD), 407.

4 V

$C_4H_7O_2N_2Cl_3S$ Thiocarbamide methyl trichloroacetate (TAYLOR), 10.

$C_4H_8O_2N_2Cl_2S$ Thiocarbamide methyl dichloroacetate (TAYLOR), 10.

$C_4H_9O_2N_2ClS$ Methyl *iso*thiohydantoate hydrochloride (TAYLOR), 9. Thiocarbamide methyl chloroacetate (TAYLOR), 7.

$C_4H_{17}ON_4Cl_2Co$ *trans*-Dichlorodiethylene diaminecobaltic hydroxide, salts of (PRICE and DUFF), 1075.

C_5 Group.

C_5H_5N Pyridine, action of ethyl chloroformate on (HOPKINS), 278.

5 III

$C_5H_8O_2Te$ Tellurium acetylacetone (MORGAN and DREW), 1464.

$C_5H_9O_2Cl$ *n*-Butyl chloroformate (CHATTAWAY and SAERENS), 708.

$C_5H_{11}O_2N$ *n*-Butyl carbamate (CHATTAWAY and SAERENS), 709.

5 IV

$C_5H_6O_2Cl_2Te$ Tellurium acetylacetone dichloride (MORGAN and DREW), 1462.

$C_5H_6O_3N_2S$ Carbomethoxy *iso*thiohydantoin (DIXON and KENNEDY), 79.

$C_5H_8O_4N_2S$ Dicarbomethoxythiocarbamide (DIXON and KENNEDY), 85.

5 V

$C_5H_{10}O_5N_2S$ Carbethoxy-ψ-thiocarbamide bicarbonate (DIXON and KENNEDY), 83.

$C_5H_{11}O_2N_2ClS$ Thiocarbamide ethyl chloroacetate (TAYLOR), 10.

$C_5H_{19}O_3N_4S_2Co$ *cis*-Methionatodiethylenediaminecobaltic hydroxide, salts of (PRICE and DUFF), 1073.

5 VI

$C_5H_{16}O_6N_4BrS_2Co$ *cis*-Methionatodiethylenediaminecobaltic bromide ($+ 2H_2O$) (PRICE and DUFF), 1073.

C_6 Group.

C_6H_6 Benzene, influence of drying agents on the freezing point of (SIDGWICK), 1340; equilibrium in the system: ethyl alcohol, water, and (SIDGWICK and SPURRELL), 1397.

6 II

$C_6H_{10}O_3$ Ethyl acetoacetate, condensation of, with *p*-dimethylaminobenzaldehyde and ammonia (HINKEL and CREMER), 137.

$C_6H_{12}O_3$ Methyl *n*-butyl carbonate (CHATTAWAY and SAERENS), 709.

$C_6H_{12}O_6$ Fructose, relationship of inulin to (IRVINE and STEELE), 1474. Glucose, conversion of cellulose into (IRVINE and SOUTAR), 1489.

$C_6H_{12}S_3$ Triethylene trisulphide (RÂY), 1090.

$C_6H_{12}S_4$ Triethylene tetrasulphides (RAY), 1090.
$C_6H_{14}S_4$ Triethylene disulphide dimercaptan (RAY), 1092.
$C_6H_{18}N_4$ Triethylenetetramine, and its salts (FARGHER), 1354.

6 [illegible]

$C_6H_5I_2As$ Phenyldi-iodoarsine (BURROWS and TURNER), 1376.
$C_6H_7ON_3$ *N*-Nitroso-β-phenylhydroxylamine, ammonium salt (*cupferron*), preparation of (SLATER), 591.
$C_6H_5O_5N$ Nitropaenol, preparation of (RENNIE, COOKE, and FINLAYSON), 342.
$C_6H_{16}O_2N_2$ Methylammonium diethylcarbamate (WERNER), 1052.

6 IV

$C_6H_5O_2N_2B$ Nitrosoboranilide (CHAUDHURI), 1082.
C_6H_6ONB Boranilide, and its salts (CHAUDHURI), 1082.
C_6H_6NSB Thioboranilide (CHAUDHURI), 1083.
$C_6H_8O_3N_2S$ Carbethoxy*iso*thiohydantoin, and its hydrochloride (DIXON and KENNEDY), 78.
$C_6H_{12}Cl_2S_4Hg_2$ Dichloromercaptide from triethylene disulphide dimercaptan and mercuric chloride (RÂY), 1092.
$C_6H_{14}NIS$ 1:4-Thiazan ethiodide (DAVIES), 308.

6 V

C_6H_5ONBrB Bromoboranilides (CHAUDHURI), 1082.
$C_6H_{19}O_6N_4SCo$ *cis*-Sulphoacetatodiethylenediaminecobaltic hydroxide, salts of (PRICE and DUFF), 1072.

6 VI

$C_6H_{18}O_5N_4BrSCo$ *cis*-Sulphoacetatodiethylenediaminecobaltic bromide (PRICE and DUFF), 1072.

C_7 Group.

C_7H_{12} Heptadiene, from *n*-butyl alcohol, acetone, and aluminium oxide (WEIZMANN and GARRARD), 337.
C_7H_{14} Hydrocarbon from *n*-butyl alcohol, acetone, and aluminium oxide (WEIZMANN and GARRARD), 337.

7 II

$C_7H_2Br_6$ Pentabromobenzyl bromide (DHAR), 996.
$C_7H_6O_2$ Benzoic acid, volatility of, and its derivatives in steam (SIDGWICK), 396.
$C_7H_8O_2$ Guaiacol, arsinic acids derived from (FARGHER), 865.
C_7H_9N Methylaniline, cadmi- and cobalto-chlorides of (REILLY and HICKINBOTTOM), 130.
$C_7H_{10}O_2$ *cyclo*-Pentylideneacetic acid (BECKER and THORPE), 1583.
$C_7H_{10}O_4$ *trans*-Caronic acid, preparation of, and its silver salt (SIMONSEN), 577; (FARMER and INGOLD), 1372.
$C_7H_{12}O$ Δγ-Heptylene-β-one (WEIZMANN and GARRARD), 335.
Suberone, preparation of (DAY, KON, and STEVENSON), 642.
$C_7H_{12}O_6$ αα-Dihydroxy-ββ-dimethylglutaric acid, preparation of (FARMER and INGOLD), 1371.
$C_7H_{14}O_3$ Ethyl *n*-butyl carbonate (CHATTAWAY and SAERENS), 709.

7 III

$C_7H_3OBr_5$ Pentabromobenzyl alcohol (DHAR), 997.
$C_7H_5O_6N_3$ 2:3:6-Trinitrotoluene, preparation of (DREW), 1615; synthesis of (BRADY and TAYLOR), 876.
Trinitrotoluenes, preparation of (BRADY and WILLIAMS), 1137.

$C_7H_5O_8N_5$ Trinitrophenylmethylnitroamine (*tetryl*), velocity of decomposition of (FARMER), 1603; action of amines on (JAMES, JONES, and LEWIS), 1273.

$C_7H_6O_4N_2$ Dinitrotoluenes, preparation of (BRADY and WILLIAMS), 1137; action of ammonia and sodium methoxide on (KENNER and PARKIN), 852.

3-Nitroanthranilic acid, preparation of (JAMES, KENNER, and STUBBINGS), 775.

$C_7H_6O_5N_2$ 2:6-Dinitro-*m*-cresol (DREW), 1618.

$C_7H_6O_6N_4$ 2:4:5-Trinitromethylaniline (SWANN), 3.

$C_7H_6N_2Cl$ Chlorotolylenediazoimines (MORGAN and DREW), 789.

$C_7H_7O_4N_3$ 5:6-Dinitro-*o*-toluidine (BRADY and TAYLOR), 879.

Dinitrotoluidines, preparation and separation of (BRADY and WILLIAMS), 1138.

C_7H_8ClAs Phenylmethylchloroarsine (BURROWS and TURNER), 1377.

C_7H_8IAs Phenylmethyliodoarsine, preparation of (BURROWS and TURNER), 1377.

$C_7H_9O_5As$ Hydroxymethoxyphenylarsinic acids, and their calcium salts (FARGHER), 872.

$C_7H_9N_2Cl$ Chlorotolylenediamines (MORGAN and DREW), 786.

$C_7H_{21}NI$ Methyltriethylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1313.

7 IV

$C_7H_4O_2N_3Cl$ 4-Chloro-7-nitroindazole (MORGAN and DREW), 787.

$C_7H_4O_4NI$ 2-Iodo-3-nitrobenzoic acid, preparation of (JAMES, KENNER, and STUBBINGS), 776.

$C_7H_5O_2NBr_2$ Dibromohydroxybenzaldoximes (WENTWORTH and BRADY), 1042.

$C_7H_5O_4N_2Cl$ Chlorodinitrotoluenes (MORGAN and DREW), 786.

$C_7H_7O_2N_2Cl$ Chloronitrotoluidines (MORGAN and DREW), 787.

$C_7H_8O_6NAs$ 3-Nitro-4-methoxyphenylarsinic acid, and its sodium salt (FARGHER), 868.

$C_7H_8O_7NAs$ Nitrohydroxymethoxyphenylarsinic acids (FARGHER), 871.

$C_7H_{10}O_4NAs$ 3-Amino-4-methoxyphenylarsinic acid (FARGHER), 869.

$C_7H_{12}O_4N_2S$ Dicarbethoxythiocarbamide (DIXON and KENNEDY), 83.

7 V

$C_7H_5O_2NClI$ 5-Chloro-4-iodo-3-nitrotoluene (JAMES, KENNER, and STUBBINGS), 776.

$C_7H_{18}O_4N_4BrCo$ *cis*-Malonatodiethylenediaminecobaltic bromide (PRICE and DUFF), 1076.

C_8 Group.

$C_8H_6O_5$ Anhydro-acids from carboxymethane-II$^{1:3}$-3-methyl*cyclo*propane-1:2-dicarboxylic acids (BEESLEY and THORPE), 613.

$C_8H_8O_6$ Lactone of hydroxycarboxymethane-II$^{1:3}$-3-methyl*cyclo*propane-1:2-dicarboxylic acid (BEESLEY and THORPE), 616.

Methylmethane-III$^{1:2:3}$-*cyclo*propane-1:2:3-tricarboxylic acid, and its silver salt (BEESLEY and THORPE), 617.

Tri-lactone of $\alpha\beta\beta$-trihydroxydimethylpropanetricarboxylic acid, and its silver salt (BEESLEY and THORPE), 618.

$C_8H_7Cl_3$ 3:5:6-Trichloro-*o*-xylene (HINKEL), 1300.

$C_8H_8O_3$ Fisetol (*ω-hydroxyresacetophenone*), synthesis of derivatives of (SLATER and STEPHEN), 309.

$C_8H_8O_4$ Phloroacetophenone (SEN and GHOSH), 61.

$C_8H_8O_6$ Carboxymethane-II$^{1:3}$-3-methyl*cyclo*propane-1:2-dicarboxylic acids and their salts (BEESLEY and THORPE), 612.

Dilactone of $\beta\beta$-dihydroxydimethylpropanetricarboxylic acid (BEESLEY and THORPE), 612.

$C_8H_8Cl_2$ 2:ω(4)-Dichloro-*p*-xylene (STEPHEN, SHORT, and GLADDING), 524.

$C_8H_8Cl_6$ 2:3:3:4:5-Pentachloro-1:1-dimethyl-Δ^5-*cyclo*hexene (HINKEL), 1299.

$C_8H_{10}O_2$ Veratrole, arsinic acids derived from (FARGHER), 865.

$C_8H_{10}Cl_2$ 3:5-Dichloro-1:1-dimethyl-$\Delta^{2:4}$-*cyclo*hexadiene, action of chlorine on (HINKEL), 1296.

$C_8H_{11}As$ Phenyldimethylarsine, preparation of (BURROWS and TURNER), 1378.

$C_8H_{12}O_3$ β-Propylglutaric anhydride (DAY and THORPE), 1472.

$C_8H_{12}O_6$ $\beta\beta$-Dihydroxydimethylpropanetricarboxylic acid, and its silver salt (BEESLEY and THORPE), 612.

$C_8H_{14}O$ α-Ethyl-Δ^α-hexenealdehyde (WEIZMANN and GARRARD), 329.

$C_8H_{14}O_4$ β-Propylglutaric acid, and its silver salt (DAY and THORPE), 1471.

Suberic acid, preparation of (DAY, KON, and STEVENSON), 641.

$C_8H_{16}O_2$ α-Ethylhexoic acid, preparation of (WEIZMANN and GARRARD), 330.

$C_8H_{16}O_3$ *n*-Propyl *n*-butyl carbonate (CHATTAWAY and SAERENS), 709.

$C_8H_{18}O$ α-Ethylhexyl alcohol, preparation of (WEIZMANN and GARRARD), 329.

8 III

$C_8H_5O_4I$ 2-Iodo*iso*phthalic acid, preparation of (JAMES, KENNER, and STUBBINGS), 774.

$C_8H_5O_5Br$ Bromo-anhydro-acid from bromocarboxymethane-II$^{1:3}$-3-methyl*cyclo*propane-1:2-dicarboxylic acid (BEESLEY and THORPE), 615.

$C_8H_6Cl_3Br$ 3:4:5-Trichloro-6-bromo-*o*-xylene (HINKEL), 1300.

$C_8H_7O_6Br$ Bromocarboxymethane-II$^{1:3}$-3-methyl*cyclo*propane-1:2-dicarboxylic acids (BEESLEY and THORPE), 615.

$C_8H_8O_5N_2$ 2:6-Dinitro-*m*-tolyl methyl ether (DREW), 1618.

$C_8H_9O_3N_3$ 3-Cyano-2:6-diketo-4-methylpiperidine-5-carboxylamide (DAY and THORPE), 1470.

$C_8H_9O_4N_3$ α- and β-Dinitrodimethylanilines (SWANN), 2.

$C_8H_{10}O_2N_4$ $\alpha\alpha'$-Dicyano-β-methylglutaramide and 6-Imino-3-cyano-5-carbamyl-4-methyl-2-piperidone (DAY and THORPE), 1469.

$C_8H_{11}O_2N$ 4-Aminoveratrole, preparation of (FARGHER), 869.

$C_8H_{11}O_5As$ 3:4-Dimethoxyphenylarsinic acid (FARGHER), 870.

$C_8H_{12}N_2S_2$ Nitrile, from potassium cyanide and $\beta\beta'$-dichlorodiethyl sulphide (DAVIES), 305.

$C_8H_{14}O_4S$ γ-Thiodibutyric acid (DAVIES), 301.

$C_8H_{14}O_4S_2$ Acid, from hydrolysis of nitrile $C_8H_{12}N_2S_2$ (DAVIES), 305.

$C_8H_{15}ON_3$ $\Delta\gamma$-Heptylene-β-one semicarbazone (WEIZMANN and GARRARD), 335.

$C_8H_{21}NI$ Tetraethylammonium iodide, mercuri-iodides of, and their crystallography (BARKER and PORTER), 1313.

8 IV

$C_8H_6O_2NCl_3$ 3:4:5-Trichloro-6-nitro-*o*-xylene (HINKEL), 1301.

$C_8H_8O_2NCl$ Chloronitroxylenes (STEPHEN, SHORT, and GLADDING), 524.

$C_8H_8O_2NBr$ 5-Bromo-*o*-methoxybenzaldoxime, and its hydrochloride (WENTWORTH and BRADY), 1043.

$C_8H_{10}OClAs$ Phenylethoxychloroarsine (MCKENZIE and WOOD), 410.

$C_8H_{10}O_7NAs$ 5-Nitro-3:4-dimethoxyphenylarsinic acid, and its salts (FARGHER), 870.

$C_8H_{12}O_5NAs$ 5-Amino-3:4-dimethoxyphenylarsinic acid (FARGHER), 871.

C_9 Group.

C_9H_7N Quinoline, action of ethyl chloroformate on (HOPKINS), 278.

$C_9H_8O_2$ Methylcoumaranones, preparation of (HIGGINBOTHAM and STEPHEN), 1541.

$C_9H_{10}O_3$ Mandelic acid, racemisation of esters of (MCKENZIE and WREN), 685.

Tolyloxyacetic acids, preparation of, and their salts (HIGGINBOTHAM and STEPHEN), 1534.

$C_9H_{10}O_4$ ω-Methoxyresacetophenone (SLATER and STEPHEN), 312.

Substance from the resin of *Xanthorrhœa* (RENNIE, COOKE, and FINLAYSON), 343.

$C_9H_{10}O_5$ Dimethyl*dicyclo*pentanonedicarboxylic acid, oxidation of (FARMER and INGOLD), 1371.

Syringic acid (ALIMCHANDANI and MELDRUM), 967.

2:4:6-Trihydroxy-ω-methoxyacetophenone ($+H_2O$) (SLATER and STEPHEN), 316.

$C_9H_{12}O_4$ Lactone of α-hydroxy*cyclo*pentane-1:1-diacetic acid (BECKER and THORPE), 1586.

cis- and *trans-cyclo*Pentane*spirocyclo*propane-1:2-dicarboxylic acids, and the silver salt of the latter (BECKER and THORPE), 1587.

$C_9H_{12}O_5$ Lactonic acid of αα′-dihydroxy*cyclo*pentane-1:1-diacetic acid (BECKER and THORPE), 1585.

$C_9H_{12}N_2$ *as*-Phenylallylhydrazine (SINGH), 1212.

$C_9H_{13}As$ Phenylmethylethylarsine (BURROWS and TURNER), 1380.

$C_9H_{14}O_5$ α-Hydroxy*cyclo*pentane-1:1-diacetic acid, silver salt (BECKER and THORPE), 1587.

$C_9H_{14}N_2$ *as*-Phenyl-α-propylhydrazine, and its hydroferrocyanide (SINGH), 1206.

$C_9H_{18}O_6$ Trimethyl γ-fructose (IRVINE and STEELE), 1485.

Trimethyl glucose (HAWORTH), 207.

9 III

$C_9H_7O_3N$ *o*-Nitrocinnamaldehyde, preparation of (MILLS and EVANS), 1037.

$C_9H_7O_6N_3$ Acetyl derivative of 2:4-dinitrobenzaldoxime (WENTWORTH and BRADY), 1042.

$C_9H_5O_7N_4$ 2:4:6-Trinitroaceto-*m*-toluidide (COOK and BRADY), 750.

C_9H_9ON Tolyloxyacetonitriles (HIGGINBOTHAM and STEPHEN), 1540.

$C_9H_9O_2N$ 5-Hydroxy-1-methylcoumaran-2-one (SLATER and STEPHEN), 317.

$C_9H_9O_2Cl$ Tolyloxyacetyl chlorides (HIGGINBOTHAM and STEPHEN), 1538.

$C_9H_9O_5N_3$ Dinitroaceto-*o*-toluidides (BRADY and TAYLOR), 879.

Dinitroaceto-*m*-toluidides (COOK and BRADY), 752.

$C_9H_{11}ON$ *p*-Dimethylaminobenzaldehyde, condensation of ethyl acetoacetate and ammonia with (HINKEL and CREMER), 137.

$C_9H_{11}O_2N$ Tolyloxyacetamides (HIGGINBOTHAM and STEPHEN), 1539.

$C_9H_{11}O_3N_3$ 3-Cyano-2:6-diketo-4-ethylpiperidine-5-carboxylamide (DAY and THORPE), 1471.

$C_9H_{11}O_6As$ Acetoxymethoxyphenylarsinic acids (FARGHER), 872.

$C_9H_{12}O_2N_4$ αα′-Dicyano-β-ethylglutaramide (DAY and THORPE), 1470.

6-Imino-3-cyano-5-carbamyl-4-ethyl-2-piperidone (DAY and THORPE), 1471.

$C_9H_{12}O_3S$ Mesitylenesulphonic acid, preparation of (GIBSON), 949.

$C_9H_{12}O_4Br_2$ $\alpha\alpha'$-Dibromo*cyclo*pentane-1:1-diacetic acid (BECKER and THORPE), 1585.

$C_9H_{14}NI$ Phenyltrimethylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1316.

$C_9H_{14}I_2As_2$ Substance, from phenyldimethylarsine and methyldi-iodoarsine (BURROWS and TURNER), 1378.

$C_9H_{17}ON_2$ Phenylmethylethylazonium hydroxides, salts of, and their resolution (SINGH), 1204.

$C_9H_{22}NI$ Triethyl-α-propylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1314.

9 IV

$C_9HO_4NBr_4$ Tetrabromo-6-nitrocoumarin (DHAR), 1000.

$C_9H_2O_4NBr_3$ Tribromo-6-nitrocoumarin (DHAR), 1000.

$C_9H_3O_4NBr_2$ 3:8-Dibromo-6-nitrocoumarin (DHAR), 1000.

$C_9H_3O_6N_2Br$ 3-Bromo-6:8-dinitrocoumarin (DHAR), 1000.

$C_9H_8O_2NBr$ 5-Bromoveratronitrile (WENTWORTH and BRADY), 1045.

$C_9H_{10}O_3NBr$ 5-Bromo-3:4-dimethoxybenzaldoximes (WENTWORTH and BRADY), 1044.

$C_9H_{10}O_7N_2S$ Dinitro-ψ-cumene-5-sulphonic acid ($+4H_2O$), and its salts (GIBSON), 953.

Dinitromesitylenesulphonic acid ($+4H_2O$), and its salts (GIBSON), 950.

$C_9H_{11}O_6N_3S$ Dinitro-ψ-cumene-5-sulphonamide (GIBSON), 955.

Dinitromesitylenesulphonamide (GIBSON), 951.

$C_9H_{12}O_5N_2S$ Nitroamino-ψ-cumene-5-sulphonic acid (GIBSON), 956.

$C_9H_{14}O_3N_2S$ Diamino-ψ-cumene-5-sulphonic acid (GIBSON), 956.

Diaminomesitylenesulphonic acid (GIBSON), 952.

$C_9H_{23}O_5N_4Co$ *cis*-Dimethylmalonatodiethylenediaminecobaltic hydroxide, salts of (PRICE and DUFF), 1076.

9 V

$C_9H_9O_6N_2ClS$ Dinitro-ψ-cumene-5-sulphonyl chloride (GIBSON), 955.

Dinitromesitylenesulphonyl chloride (GIBSON), 950.

$C_9H_{11}O_2N_2ClS$ Thiocarbamide benzyl chloroacetate (TAYLOR), 8.

$C_9H_{22}O_4N_4ClCo$ *cis*-Dimethylmalonatodiethylenediaminecobaltic chloride (PRICE and DUFF), 1077.

$C_9H_{22}O_4N_4BrCo$ *cis*-Dimethylmalonatodiethylenediaminecobaltic bromide ($+2H_2O$) (PRICE and DUFF), 1077.

C_{10} Group.

$C_{10}H_{16}$ *d*-Carene (SIMONSEN), 574.

1-Methyl-3-*iso*propyl-$\Delta^{4:6}$-*cyclo*hexadiene (HENDERSON and SMEATON), 149.

$C_{10}H_{18}$ 1-Methyl-3-*iso*propyl-Δ^5-*cyclo*hexene (HENDERSON and SMEATON), 148.

10 II

$C_{10}H_2Br_6$ Hexabromonaphthalene (DHAR), 997.

$C_{10}H_4Br_4$ Tetrabromonaphthalenes (DHAR), 997.

$C_{10}H_8O_6$ 4-Hydroxy-3:5-dimethoxyphthalic anhydride (ALIMCHANDANI and MELDRUM), 970.

$C_{10}H_{10}O_2$ α-Benzylacrylic acid (SIMONSEN), 567.

$C_{10}H_{10}O_5$ 4-Hydroxy-3:5-dimethoxyphthalide (ALIMCHANDANI and MELDRUM), 969.

$C_{10}H_{12}O_7$ 4-Hydroxy-3:5-dimethoxyphthalic acid (ALIMCHANDANI and MELDRUM), 970.

$C_{10}H_{10}O_7$ 3:4:5-Trimethoxyphthalide, preparation of (ALIMCHANDANI and MELDRUM), 969.
$C_{10}H_{10}N_4$ *o*- and *p*-Tolueneazoglyoxalines (PYMAN and RAVALD), 1426.
$C_{10}H_{11}N$ Dihydro-α-naphthylamines, and their hydrochlorides (ROWE and LEVIN), 1576.
$C_{10}H_{12}O_5$ 3:4:5-Trimethoxybenzoic acid, salts of (ALIMCHANDANI and MELDRUM), 967.
$C_{10}H_{12}O_6$ ββ-Dihydroxydimethylpropanecarbethoxydicarboxylic acid dilactone (BEESLEY and THORPE), 611.
$C_{10}H_{12}N_4$ 2:4′-Diamino-4-*m*-tolylglyoxaline, and its salts (PYMAN and RAVALD), 1428.
$C_{10}H_{13}Br$ 4-Bromo-*n*-butylbenzene (REILLY and HICKINBOTTOM), 112.
$C_{10}H_{14}O$ *p-sec.*-Butylphenol, preparation of (REILLY and HICKINBOTTOM), 122.
4-Hydroxy-*n*-butylbenzene (REILLY and HICKINBOTTOM), 114.
6-Hydroxy-*m-iso*cymene (HENDERSON and SMEATON), 147.
$C_{10}H_{14}O_2$ 2:4-Dimethoxyethylbenzene (NIERENSTEIN), 973.
$C_{10}H_{15}N$ Amino-*n*- and -*sec.*-butylbenzenes, and their salts (REILLY and HICKINBOTTOM), 110, 126.
n- and *sec.*-Butylanilines, and their salts (REILLY and HICKINBOTTOM), 121, 126.
$C_{10}H_{15}As$ Phenyldiethylarsine, preparation of (BURROWS and TURNER), 1379.
$C_{10}H_{16}N_2$ 4-*n*-Butyl-*o*-phenylenediamine (REILLY and HICKINBOTTOM), 118.
$C_{10}H_{18}O$ *iso*Pulegol, physical properties of, and of its esters (PICKARD, HUNTER, LEWCOCK, and PENNINGTON), 1248.
$C_{10}H_{18}O_2$ *d*-Careneglycol (SIMONSEN), 576.
$C_{10}H_{18}O_4$ *l*-Hexylsuccinic acid (WREN and BURNS), 266.
$C_{10}H_{18}Br_2$ 5:6-Dibromo-1-methyl-3-*iso*propyl*cyclo*hexane (HENDERSON and SMEATON), 148.
$C_{10}H_{20}O$ 1-Methyl-3-*iso*propyl*cyclo*hexan-6-ol (HENDERSON and SMEATON), 147.
$C_{10}H_{20}O_6$ Tetramethyl fructoses (HAWORTH), 207; (IRVINE and STEELE), 1488.

10 III

$C_{10}H_8O_3N_2$ 3-Cyano-2:6-diketo-4-propylpiperidine-5-carboxylamide (DAY and THORPE), 1472.
$C_{10}H_4O_8N_2$ 1:2:6:8-Tetranitronaphthalene (DHAR), 1004.
$C_{10}H_7ONa$ Sodium β-naphthoxide, action of alkyl iodides with (COX), 493.
$C_{10}H_9ON$ 1-Methyl-2-quinolone, preparation of (MILLS and WISHART), 585.
$C_{10}H_{10}O_2Br_2$ αβ′-Dibromo-β-phenyl*iso*butyric acid (SIMONSEN), 568.
$C_{10}H_{11}ON_3$ 2-*p*-Aminophenyl-5-methyl-4-glyoxalone, and its hydrochloride (FARGHER), 679.
$C_{10}H_{11}O_2Br$ Bromo-β-phenyl*iso*butyric acids (SIMONSEN), 568.
$C_{10}H_{11}O_8N_5$ Trinitrophenyl-*n*-butylnitroamine (REILLY and HICKINBOTTOM), 135.
$C_{10}H_{12}O_4Se_2$ Selenium acetylacetone (MORGAN and DREW), 1456.
$C_{10}H_{12}O_8N_6$ Substance, from the action of ammonia on tetryl (JAMES, JONES, and LEWIS), 1275.
$C_{10}H_{13}O_2N$ β′-Amino-β-phenyl*iso*butyric acid (SIMONSEN), 569.
Nitro-*n*-butylbenzenes (REILLY and HICKINBOTTOM), 116.
$C_{10}H_{13}O_3N$ Nitro-*p-sec.*-butylphenol (REILLY and HICKINBOTTOM), 123.
$C_{10}H_{14}ON_2$ Benzyldimethylcarbamide (WERNER), 1051.
Phenyl-*sec.*-butylnitrosoamine (REILLY and HICKINBOTTOM), 121.

$C_{10}H_{14}O_2N_2$ Nitroamino-*n*-butylbenzenes, and their salts (REILLY and HICKINBOTTOM), 115.

$C_{10}H_{14}O_2N_4$ *aa'*-Dicyano-*β*-propylglutaramide (DAY and THORPE), 1471.

6-Imino-3-cyano-5-carbamyl-4-propyl-2-piperidone (DAY and THORPE), 1472.

$C_{10}H_{14}N_2S$ Benzyldimethylthiocarbamide (WERNER), 1051.

$C_{10}H_{16}O_2N_2$ Dimethylammonium benzylcarbamate (WERNER), 1051.

$C_{10}H_{16}O_3N_2$ *d*-Carene nitrosate (SIMONSEN), 574.

$C_{10}H_{16}NI$ Phenyldimethylethylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1316.

$C_{10}H_{16}N_2S_2$ Dimethylammonium benzyldithiocarbamate (WERNER), 1051.

$C_{10}H_{16}IAS$ Phenylmethylethylarsine methiodide (BURROWS and TURNER), 1381.

$C_{10}H_{16}I_2As_2$ Substance, from phenyldimethylarsine and ethyldi-iodoarsine (BURROWS and TURNER), 1379.

Substance, from phenylmethylethylarsine and methyldi-iodoarsine (BURROWS and TURNER), 1381.

$C_{10}H_{17}N_2I$ *dl*-Phenylmethylpropylazonium iodide (SINGH), 1211.

$C_{10}H_{18}O_4S$ Methyl *γ*-thiodibutyrate (DAVIES), 304.

$C_{10}H_{19}O_3N_3$ Triacetyl derivative of diethylenetriamine (FARGHER), 1354.

$C_{10}H_{24}NI$ Methyltri-*a*-propylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1315.

10 IV

$C_{10}H_3ONBr_4$ Tetrabromonitronaphthalenes (DHAR), 997.

$C_{10}H_8O_3N_2S$ Carbophenoxy*iso*thiohydantoin (DIXON and KENNEDY), 79.

$C_{10}H_{10}ON_2Br$ 2-Methyl-4-(2'-amino-5'-bromophenyl)-5-glyoxalone (+ H_2O), and its salts (FARGHER), 677.

$C_{10}H_{10}O_3NBr$ Acetyl derivative of 5-bromo-*o*-methoxybenzaldoxime (WENTWORTH and BRADY), 1044.

10 V

$C_{10}H_{11}O_3N_2Cl_3S$ Thiocarbamide benzyl trichloroacetate (TAYLOR), 10.

$C_{10}H_{12}O_2N_2Cl_2S$ Thiocarbamide benzyl dichloroacetate (TAYLOR), 10.

C_{11} Group.

$C_{11}H_{10}O_7$ 4-Hydroxy-3:5-dimethoxyphthalide-2-carboxylic acid (+ H_2O), and its calcium salt (ALIMCHANDANI and MELDRUM), 968.

$C_{11}H_{11}N_3$ 4-Benzylideneamino-5-methylglyoxaline (FARGHER), 676.

$C_{11}H_{12}O_7$ 3:4:5-Trimethoxyphthalic acid, preparation of (ALIMCHANDANI and MELDRUM), 969.

$C_{11}H_{14}O_3$ Ethyl *l*-*a*-hydroxy-*β*-phenylpropionate, hydrolysis of (MCKENZIE and WREN), 689.

$C_{11}H_{14}O_3$ *β*-Phenyl-*a*-methoxymethylpropionic acid, and its silver salt (SIMONSEN), 567.

$C_{11}H_{16}O_2$ Homocamphorquinone (LAPWORTH and ROYLE), 749.

$C_{11}H_{16}O_3$ *cyclo*Heptane-1:1-diacetic anhydride (DAY, KON, and STEVENSON), 645.

$C_{11}H_{16}O_5$ *a*-Ketohomocamphoric acid, and its salts (CHORLEY and LAPWORTH), 739.

$C_{11}H_{17}N$ Amino-*n*-butyltoluenes (REILLY and HICKINBOTTOM), 133.

4-Methylamino-*n*-butylbenzene (REILLY and HICKINBOTTOM), 131.

Methyl-*n*-butylaniline, and its salts (REILLY and HICKINBOTTOM), 130.

$C_{11}H_{18}O$ Homocamphor (LAPWORTH and ROYLE), 743.

$C_{11}H_{18}O_4$ *cyclo*Heptane-1:1-diacetic acid, and its silver salt (DAY, KON. and STEVENSON), 639.
Homocamphoric acid (LAPWORTH and ROYLE), 750.
$C_{11}H_{22}O_6$ Tetramethyl γ-methylfructoside (IRVINE and STEELE), 1486.

11 III

$C_{11}H_5O_8N_3$ Trinitro-β-naphthoic acid (DHAR), 1004.
$C_{11}H_9O_2N$ Cinchonic acid methylbetaine (MILLS and WISHART), 586.
$C_{11}H_9O_5Cl_3$ 4-Hydroxy-3:5-dimethoxy-2-trichloromethylphthalide (ALIMCHANDANI and MELDRUM), 968.
$C_{11}H_{14}O_6N_4$ Dinitro-*n*-butylphenyl-4-methylnitroamine (REILLY and HICKINBOTTOM), 132.
$C_{11}H_{15}ON_3$ Camphorquinonecyanohydrazone (FORSTER and SAVILLE), 756.
$C_{11}H_{13}O_2N$ *n*-Butyl phenylcarbamate (CHATTAWAY and SAERENS), 710.
$C_{11}H_{15}O_4Br$ Lactone of ethyl α-bromo-α-hydroxy*cyclo*pentane-1:1-diacetate (BECKER and THORPE), 1585.
$C_{11}H_{16}ON_2$ 4-*n*-Butylphenylmethylnitrosoamine (REILLY and HICKINBOTTOM), 132.
p-Nitrosomethyl-*n*-butylaniline (REILLY and HICKINBOTTOM), 131.
$C_{11}H_{17}O_2N$ Imide of *cyclo*heptane-1:1-diacetic acid (DAY, KON, and STEVENSON), 645.
*iso*Nitrosohomocamphor (LAPWORTH and ROYLE), 749.
$C_{11}H_{17}O_3N$ α-Camphidonecarboxylic acid, and its silver salt (CHORLEY and LAPWORTH), 741.
$C_{11}H_{17}O_4N$ Acid, and its isomeride, from nitrous acid and camphoroxalic acid (CHORLEY and LAPWORTH), 729.
$C_{11}H_{17}O_4Br$ Ethyl hydrogen α-bromo*cyclo*pentane-1:1-diacetic acid (BECKER and THORPE), 1586.
$C_{11}H_{17}O_5N$ α-*iso*Nitrosohomocamphoric acid (CHORLEY and LAPWORTH), 740.
$C_{11}H_{17}N_2Cl$ *dl*-Phenylethylallylazonium chloride, platinichloride of (SINGH), 1212.
$C_{11}H_{17}N_2I$ *dl*-Phenylethylallylazonium iodide (SINGH), 1212.
$C_{11}H_{18}NI$ Phenyldimethyl-α-propylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1317.
Phenylmethyldiethylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1317.
$C_{11}H_{15}I_2As_2$ Substance, from phenyldiethylarsine and methyldi-iodoarsine (BURROWS and TURNER), 1380.
$C_{11}H_{19}ON$ Homocamphoroxime (LAPWORTH and ROYLE), 748.
$C_{11}H_{26}NI$ Ethyltri-α-propylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1315.

11 IV

$C_{11}H_9O_4NBr_2$ Diacetyl derivatives of dibromohydroxybenzaldoximes (WENTWORTH and BRADY), 1042.
$C_{11}H_{10}O_2NI$ Cinchonic acid methiodide (MILLS and WISHART), 586.
$C_{11}H_{10}O_3N_2S$ Phenylcarbomethoxy*iso*thiohydantoin (DIXON and KENNEDY), 77.
$C_{11}H_{12}O_2NCl_3$ *n*-Butyl 2:4:6-trichlorophenylcarbamate (CHATTAWAY and SAERENS), 710.
$C_{11}H_{12}O_4NBr$ Acetyl derivatives of 5-bromo-3:4-dimethoxybenzaldoximes (WENTWORTH and BRADY), 1044.
$C_{11}H_{13}O_2NCl_2$ *n*-Butyl 2:4-dichlorophenylcarbamate (CHATTAWAY and SAERENS), 710.

$C_{11}H_{13}O_2NBr_2$ *n*-Butyl 2:4-dibromophenylcarbamate (CHATTAWAY and SAERENS), 710.

$C_{11}H_{14}O_2NCl$ *n*-Butyl chlorophenylcarbamates (CHATTAWAY and SAERENS), 710.

$C_{11}H_{14}O_2NBr$ *n*-Butyl bromophenylcarbamates (CHATTAWAY and SAERENS), 710.

$C_{11}H_{14}O_2NI$ *n*-Butyl *p*-iodophenylcarbamate (CHATTAWAY and SAERENS), 711.

$C_{11}H_{16}O_2N_4S_2$ Benzyl-ψ-thiourea *iso*thiohydantoate (TAYLOR), 9.

11 IV

$C_{11}H_{13}O_2NClBr$ *n*-Butyl 2-chloro-4-bromophenylcarbamate (CHATTAWAY and SAERENS), 710.

C_{12} Group.

$C_{12}H_{12}O_3$ 2-Hydroxydiphenylacetic acid (GREENWOOD and NIERENSTEIN), 1598.

$C_{12}H_{12}N_2$ Benzidine, condensation of benzil with (FERRISS and TURNER), 1143.

$C_{12}H_{13}As$ α-Naphthyldimethylarsine (BURROWS and TURNER), 1381.

$C_{12}H_{14}O$ 1-Phenyl*cyclo*hexan-3-one (BOYD, CLIFFORD, and PROBERT), 1389.

$C_{12}H_{14}O_5$ Benzylmethoxymethylmalonic acid, and its salts (SIMONSEN), 565.

$C_{12}H_{14}O_6$ Lactone of hydroxycarbethoxymethane-II$^{1:3}$-3-methyl*cyclo*propane-1-carbethoxy-2-carboxylic acid (BEESLEY and THORPE), 616.

$C_{12}H_{15}Br$ 3-Bromo-1-phenyl*cyclo*hexane (BOYD, CLIFFORD, and PROBERT), 1388.

$C_{12}H_{16}O$ 1-Phenyl*cyclo*hexan-3-ol, preparation of (BOYD, CLIFFORD, and PROBERT), 1387.

$C_{12}H_{16}O_4$ Camphoroxalic acid, action of nitrous acid on (CHORLEY and LAPWORTH), 728.

$C_{12}H_{19}N$ 4-Ethylamino-*n*-butylbenzene (REILLY and HICKINBOTTOM), 132.
Ethyl-*n*-butylaniline, and its picrate (REILLY and HICKINBOTTOM), 132.

$C_{12}H_{22}O_4$ Diethyl β-propylglutarate (DAY and THORPE), 1472.

$C_{12}H_{22}O_{11}$ Sucrose, structure of (HAWORTH), 199; (ARMSTRONG and HILDITCH), 1086; mechanism of the inversion of (JONES and LEWIS), 1120.

12 III

$C_{12}H_4O_6N_2$ 3:4-Dinitroacenaphthenequinone (ROWE and DAVIES), 1350.

$C_{12}H_5O_4N$ 3-Nitroacenaphthenequinone (ROWE and DAVIES), 1349.

$C_{12}H_6O_2N_2$ Acenaphthene-7:8-*iso*oxadiazole oxide (ROWE and DAVIES), 1348.

$C_{12}H_6ON_2$ Acenaphthene-2:3-*iso*oxadiazole (ROWE and DAVIES), 1348.

$C_{12}H_6O_2N_2$ Acenaphthene-2:3-*iso*oxadiazole oxides (ROWE and DAVIES), 1346.

$C_{12}H_9O_2Cl$ β-Naphthyl chloroacetate (CROMPTON and VANDERSTICHELE), 692.

$C_{12}H_{10}O_2N_2$ Acenaphthene-2:3-quinonedioxime (ROWE and DAVIES), 1347.

$C_{12}H_{10}ClAs$ Diphenylarsenious chloride (MORGAN and VINING), 777.

$C_{12}H_{10}BrAs$ Diphenylarsenious bromide, preparation of (POPE and TURNER), 1451.

$C_{12}H_{10}IAs$ Diphenylarsenious iodide (POPE and TURNER), 1452.

$C_{12}H_{11}OCl$ 5-Chloro-1-phenyl-Δ^4-*cyclo*hexen-3-one (BOYD, CLIFFORD, and PROBERT), 1386.

$C_{12}H_{11}O_2Br$ 4-Bromophenyldihydroresorcin (BOYD, CLIFFORD, and PROBERT), 1385.

$C_{12}H_{13}ON$ Dihydroaceto-α-naphthalides (Rowe and Levin), 1576.
$C_{12}H_{13}ON$ Oxime of 1-phenyl*cyclo*hexan-3-one (Boyd, Clifford, and Probert), 1389.
$C_{12}H_{16}O_3N_2$ 3-Nitro-4-acetylamino-*n*-butylbenzene (Reilly and Hickinbottom), 117.
$C_{12}H_{17}ON$ Acetylamino-*n*- and -*sec.*-butylbenzenes (Reilly and Hickinbottom), 111.
$C_{12}H_{17}ON_3$ Methyl derivative of camphorquinonecyanohydrazone (Forster and Saville), 756.
$C_{12}H_{17}O_2N$ *n*-Butyl tolylcarbamates (Chattaway and Saerens), 711.
$C_{12}H_{18}ON_2$ Benzyldiethylcarbamide (Werner), 1051.
4-*n*-Butylphenylethylnitrosoamine and *p*-Nitrosoethyl-*n*-butylaniline, and its zincichloride (Reilly and Hickinbottom), 132.
$C_{12}H_{18}N_2S$ Benzyldiethylthiocarbamide (Werner), 1052.
$C_{12}H_{19}O_2N_3$ Base, from camphorquinonecyanohydrazone, and sulphuric acid (Forster and Saville), 758.
Camphorquinonemethylsemicarbazone ($+\frac{1}{2}H_2O$) (Forster and Saville), 760.
$C_{12}H_{19}O_4N$ Methyl derivative of acid $C_{11}H_{17}O_4N$ (Chorley and Lapworth), 738.
$C_{12}H_{20}O_3N_2$ Diethylammonium benzylcarbamate (Werner), 1051.
$C_{13}H_{20}NI$ Phenyltriethylammonium iodide, mercuri-iodides of, and their crystallography (Barker and Porter), 1318.
$C_{12}H_{20}N_2S_2$ Diethylammonium benzyldithiocarbamate (Werner), 1052.
$C_{12}H_{21}ON_3$ Homocamphorsemicarbazone (Lapworth and Royle), 748.
$C_{12}H_{22}O_4S$ Ethyl γ-thiodibutyrate (Davies), 302.
$C_{12}H_{28}NI$ Tetra-α-propylammonium iodide, mercuri-iodide of, and its crystallography (Barker and Porter), 1316.

12 IV

$C_{12}H_{10}ON_3B$ Boryldiazoaminobenzene (Chaudhuri), 1084.
$C_{12}H_{12}ONCl$ Oxime of 5-chloro-1-phenyl-Δ^4-*cyclo*hexen-3-one (Boyd, Clifford, and Probert), 1386.
$C_{12}H_{12}ON_3B$ Boro-α-phenyl-β-aminophenylhydrazide (Chaudhuri), 1085.
Borylhydrazoaminobenzene (Chaudhuri), 1085.
$C_{12}H_{12}O_3N_2As_2$ 3:3′-Diamino-4:4′-dihydroxyarsenobenzene, dihydrochloride (salvarsan), preparation of (Fargher and Pyman), 370.
$C_{12}H_{12}O_3N_2S$ Phenylcarbethoxy*iso*thiohydantoin (Dixon and Kennedy), 76.

C_{13} Group.

$C_{13}H_8O_2$ Xanthone, formation, structure, and derivatives of (Dhar), 1053.
$C_{13}H_9N$ 4-Cyanodiphenyl, preparation of (Ferriss and Turner), 1148.
$C_{13}H_{10}O_3$ 2:4-Dihydroxybenzophenone, preparation of (Stephen), 1529.
$C_{13}H_{10}O_4$ 2:4:4′-Trihydroxybenzophenone, preparation of (Stephen), 1529.
$C_{13}H_{12}O_2$ Substance, from the resin of *Xanthorrhœa* (Rennie, Cooke, and Finlayson), 347.
$C_{13}H_{13}As$ Diphenylmethylarsine (Burrows and Turner), 1381.
$C_{13}H_{14}N_2$ Diaminodiphenylmethane, preparation of (King), 988.
$C_{13}O_2Br_8$ Octabromoxanthone (Dhar), 999.

13 III

$C_{13}H_2O_2Br_6$ Hexabromoxanthone (Dhar), 999.
$C_{13}H_4O_2Br_4$ Tetrabromoxanthone (Dhar), 999.

$C_{13}H_4O_{10}N_4$ Tetranitroxanthones (DHAR), 1065.
$C_{13}H_5O_8N_3$ Trinitroxanthones (DHAR), 1064.
$C_{13}H_6O_2Cl_2$ Dichloroxanthone (DHAR), 1069.
$C_{13}H_6O_6N_2$ Dinitroxanthones (DHAR), 1063.
$C_{13}H_7O_2Cl$ Chloroxanthones (DHAR), 1067.
$C_{13}H_7O_2Br$ Bromoxanthones (DHAR), 1069.
$C_{13}H_7O_4N$ Nitroxanthones (DHAR), 1061.
$C_{13}H_7O_6N_3$ Dinitromonoaminoxanthone (DHAR), 1064.
$C_{13}H_8O_6N_2$ Dinitroxanthhydrols (DHAR), 1067.
$C_{13}H_{10}O_6N_4$ 2:4:6-Trinitrophenylbenzylamine (JAMES, JONES, and LEWIS), 1275.
$C_{13}H_{10}NAs$ Diphenylarsenious cyanide (MORGAN and VINING), 777.
Diphenylcyanoarsine (MCKENZIE and WOOD), 411.
$C_{13}H_{11}O_5N_3$ Azo-colouring matter from 3:5-dinitro-*o*-toluidine and resorcinol (MORGAN and DREW), 791.
$C_{13}H_{11}O_6Cl_3$ 4-Acetoxy-3:5-dimethoxy-2-trichloromethylphthalide (ALIMCHANDANI and MELDRUM), 968.
$C_{13}H_{12}ON_4$ 4:4′-Diamino-2:2′-azoxydiphenylmethane, and its dihydrochloride (KING), 992.
$C_{13}H_{12}O_4N_4$ 3′:4-Dinitro-2:4′-diaminodiphenylmethane (KING), 990.
$C_{13}H_{12}O_8N_6$ Substance, from aniline and tetryl (JAMES, JONES, and LEWIS), 1275.
$C_{13}H_{13}O_2N_3$ 4-Nitro-2:4′-diaminodiphenylmethane, and its dihydrochloride (KING), 989.
$C_{13}H_{13}O_5N_7$ Substance, from *m*-phenylenediamine and tetryl (JAMES, JONES, and LEWIS), 1278.
$C_{13}H_{15}O_2N_3$ ω-Imide of $\alpha\alpha_1$-dicyano*cyclo*heptane-1:1-diacetic acid (DAY, KON, and STEVENSON), 643.
$C_{13}H_{16}IAs$ α-Naphthyldimethylarsine methiodide (BURROWS and TURNER), 1381.
$C_{13}H_{16}I_2As_2$ Substance, from α-naphthyldimethylarsine and methyldi-iodoarsine (BURROWS and TURNER), 1382.
$C_{13}H_{17}ON_3$ Semicarbazone of 1-phenyl*cyclo*hexan-3-one (BOYD, CLIFFORD, and PROBERT), 1389.
$C_{13}H_{17}O_2N_3$ Acetyl derivative of camphorquinonecyanohydrazone (FORSTER and SAVILLE), 757.
$C_{13}H_{19}ON$ Acetylamino-*n*-butyltoluenes (REILLY and HICKINBOTTOM), 133.
$C_{13}H_{19}O_4N_3$ ω-Imide of $\alpha\alpha_1$-dicarbamyl*cyclo*heptane-1:1-diacetic acid (DAY, KON, and STEVENSON), 644.
$C_{13}H_{20}O_4Br_2$ Ethyl $\alpha\alpha'$-dibromo*cyclo*pentane-1:1-diacetate (BECKER and THORPE), 1585.
$C_{13}H_{21}O_2N_3$ Base, from camphorquinonecyanohydrazone and hydrochloric acid (FORSTER and SAVILLE), 757.
$C_{13}H_{21}O_4N$ Dimethyl derivative of acid $C_{11}H_{17}O_4N$ (CHORLEY and LATWORTH), 738.
$C_{13}H_{21}O_4Br$ Ethyl $\alpha\alpha'$-bromo*cyclo*pentane-1:1-diacetate (BECKER and THORPE), 1586.
$C_{13}H_{22}NI$ Phenyldiethyl-α-propylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1319.

13 IV

$C_{13}H_3O_{10}N_4Cl$ Chlorotetranitroxanthones (DHAR), 1068.
$C_{13}H_3O_{10}N_4Br$ Bromotetranitroxanthones (DHAR), 1070.
$C_{13}H_4O_6N_2Cl_2$ Dichlorodinitroxanthone (DHAR), 1069.
$C_{13}H_4O_6N_2Br_2$ Dibromodinitroxanthone (DHAR), 998.

$C_{13}H_4O_8N_2Cl$ Chlorotrinitroxanthone (DHAR), 1068.
$C_{13}H_5O_6N_2Cl$ Chlorodinitroxanthone (DHAR), 1069.
$C_{13}H_5O_6N_2Br$ Bromodinitroxanthone (DHAR), 1070.
$C_{13}H_7O_5Cl_3Sn$ Substance, from stannic chloride and 2:3:8-trihydroxyxanthone (DEAN and NIERENSTEIN), 805.
$C_{13}H_8O_4N_2Cl_2$ 4:4′-Dichloro-3:3′-dinitrodiphenylmethane (STEPHEN, SHORT, and GLADDING), 523.
$C_{13}H_{10}O_2NB$ Benzoylboranilide (CHAUDHURI), 1082.
$C_{13}H_{10}NCl_2As$ Diphenylcyanoarsine dichloride (MCKENZIE and WOOD), 415.
$C_{13}H_{11}ON_3As_2$ 3′-Amino-4′-hydroxy-1:3-diazole-5:1′-arsenobenzene, and its hydrochloride (FARGHER), 875.
$C_{13}H_{14}ON_3Cl$ Semicarbazone of 5-chloro-1-phenyl-Δ^4-*cyclo*hexen-3-one (BOYD, CLIFFORD, and PROBERT), 1386.

13 V

$C_{13}H_9O_2NBrB$ Benzoyl-*p*-bromoboranilide (CHAUDHURI), 1084.

C_{14} Group.

$C_{14}H_8N_2$ 4:4′-Dicyanodiphenyl, preparation of (FERRISS and TURNER), 1149.
$C_{14}H_{10}O_2$ Benzil, condensation of benzidine with (FERRISS and TURNER), 1143.
$C_{14}H_{10}O_5$ 2:3-Dihydroxy-8-methoxyxanthone, preparation of (DEAN and NIERENSTEIN), 803.
$C_{14}H_{12}O$ 4-Phenylacetophenone, preparation of (FERRISS and TURNER), 1147.
$C_{14}H_{16}O_2$ Acetyl derivative of 1-phenyl*cyclo*hexan-3-ol (BOYD, CLIFFORD, and PROBERT), 1388.
$C_{14}H_{18}O_6$ Ethyl methylmethane-III$^{1:2:3}$-*cyclo*propane-1:2:3-tricarboxylate (BEESLEY and THORPE), 617.
$C_{14}H_{22}O_6$ Bornyl hydrogen tartrates, and their salts (WREN, WILLIAMS, and MYDDLETON), 194.
$C_{14}H_{23}N$ 4-Amino-1:3-di-*n*-butylbenzene (REILLY and HICKINBOTTOM), 123.
$C_{14}H_{24}O_4$ Dimethyl hydrocamphorylacetate (LAPWORTH and ROYLE), 747.

14 III

$C_{14}H_6O_2Br_2$ 1:3-Dibromoanthraquinone (DHAR), 1002.
$C_{14}H_6O_6N_2$ 1:3-Dinitroanthraquinone (DHAR), 1003.
$C_{14}H_7O_4N_3$ 3-Nitro-1-aminoanthraquinone (DHAR), 1003.
$C_{14}H_{12}O_4N_4$ Dinitroazotoluene (KENNER and PARKIN), 857.
$C_{14}H_{12}O_6N_4$ 2:4:6-Trinitrophenyl-*m*-xylylamine (JAMES, JONES, and LEWIS), 1277.
$C_{14}H_{11}O_3N_2$ Phloroacetophenonephenylhydrazone (SEN and GHOSH), 63.
$C_{14}H_{14}O_4As_2$ Dihydroxydimethoxyarsenobenzenes (FARGHER), 872.
$C_{14}H_{14}O_8N_6$ Substance, from methylaniline and tetryl (JAMES, JONES, and LEWIS), 1278.
Substance, from *o*- and *p*-toluidines and tetryl (JAMES, JONES, and LEWIS), 1276.
$C_{14}H_{15}O_6As$ 4:4′-Dihydroxy-3:3′-dimethoxydiphenylarsinic acid (FARGHER), 873.
$C_{14}H_{16}Cl_2As_2$ Substance, from phenyldimethylarsine and phenyldichloroarsine (BURROWS and TURNER), 1379.
$C_{14}H_{16}I_2As_2$ Substance, from phenyldimethylarsine and phenyldi-iodoarsine (BURROWS and TURNER), 1379.
$C_{14}H_{19}O_3N$ β-Propylglutaric semianilide (DAY and THORPE), 1472.
$C_{14}H_{19}O_6Br$ Ethyl bromocarbethoxymethane-II$^{1:3}$-3-methyl*cyclo*propane-1:2-dicarboxylates (BEESLEY and THORPE), 615.

$C_{14}H_{21}O_6Br_3$ Ethyl $\alpha\beta\beta$-tribromodimethylpropanetricarboxylate (Beesley and Thorpe), 619.

$C_{14}H_{23}ON_3$ 4-*n*-Butylphenyl-*n*-butylnitrosoamine (Reilly and Hickinbottom), 124.

$C_{14}H_{22}O_6Br_2$ Ethyl $\beta\beta$-dibromodimethylpropanetricarboxylate (Beesley and Thorpe), 610.

14 IV

$C_{14}H_9O_3N_2Br$ α- and β-Phthalyl-*p*-bromophenylhydrazides (Chattaway and Tesh), 715.

$C_{14}H_{12}O_4N_2S$ Dinitroditolyl sulphide (Kenner and Parkin), 857.

$C_{14}H_{12}O_8N_2As_2$ 5:5′-Dinitrodihydroxydimethoxyarsenobenzenes (Fargher), 873.

$C_{14}H_{15}O_3N_3S$ Methyl-orange, effect of temperature on the colour changes of (Tizard and Whiston), 150.

$C_{14}H_{16}O_4N_2As_2$ Diaminodihydroxydimethoxyarsenobenzenes, and their hydrochlorides (Fargher), 873.

C_{15} Group.

$C_{15}H_{24}$ *d*-Longifolene, and its salts (Simonsen), 578.

15 II

$C_{15}H_6O_5$ 8-Hydroxy-2:3-quinoxanthone, preparation of (Dean and Nierenstein), 802.

$C_{15}H_8O_4$ Anthraquinone-1-carboxylic acid, preparation of (Perkin), 706.

$C_{15}H_{10}O_5$ 2:3-Methylenedioxy-8-methoxyxanthone, preparation of (Dean and Nierenstein), 803.

$C_{15}H_{12}O_2$ 3-Phenyldihydrocoumarin, preparation of (Greenwood and Nierenstein), 1596.

$C_{15}H_{12}O_5$ 8-Hydroxy-2:3-dimethoxyxanthone (Dean and Nierenstein), 805.

$C_{15}H_{12}O_6$ Colouring matter ($+ 2H_2O$) from *Hyenanche globosa* (Henry), 1625.

$C_{15}H_{14}O$ 3-Phenylchroman (Greenwood and Nierenstein), 1597.

$C_{15}H_{14}O_6$ Catechin, constitution of (Nierenstein), 971, 1151.

$C_{15}H_{16}O$ 2-Hydroxy-$\alpha\alpha$- and -$\alpha\gamma$-diphenylpropanes (Greenwood and Nierenstein), 1595.

$C_{15}H_{16}O_2$ 2:ω-Dihydroxy-$\alpha\alpha$-diphenylpropane (Greenwood and Nierenstein), 1596.

$C_{15}H_{17}As$ Di-*o*-tolylmethylarsine (Burrows and Turner), 1383.

$C_{15}H_{18}O_7$ *n*- and *iso*-Hyenanchin (Henry), 1619.

15 III

$C_{15}H_8O_9N_2$ 5:5′-Dinitrobenzophenone-2:2′-dicarboxylic acid (Stephen, Short, and Gladding), 527.

$C_{15}H_{10}O_3N_2$ α-Phthalylformylphenylhydrazide (Chattaway and Tesh), 717.

$C_{15}H_{12}O_2N_2$ α- and β-Phthalyltolylhydrazides (Chattaway and Tesh), 716.

$C_{15}H_{13}O_3N_3$ *p*-Nitrophenylhydrazones of methylcoumaranones (Higginbotham and Stephen), 1541.

$C_{15}H_{15}ON$ 4-Acetylaminodiphenylmethane (King), 990.

$C_{15}H_{15}O_2N$ Tolyloxyacetanilides (Higginbotham and Stephen), 1540.

$C_{15}H_{15}O_5N_3$ ω-Methoxyresacetophenone *p*-nitrophenylhydrazone (Slater and Stephen), 313.

$C_{15}H_{17}O_3N$ Anilic acid of *cis-cyclo*pentane*spirocyclo*propane-1:2-dicarboxylic acid (Becker and Thorpe), 1588.

$C_{15}H_{18}NI$ Phenylbenzyldimethylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1319.

$C_{15}H_{18}IAs$ Phenyldimethylarsine benziodide (BURROWS and TURNER), 1378.

$C_{15}H_{15}I_2AS_2$ Substance, from phenylmethylethylarsine and phenyldi-iodoarsine (BURROWS and TURNER), 1381.

15 IV

$C_{15}H_9O_3N_2Br$ α-Phthalylformyl-*p*-bromophenylhydrazide (CHATTAWAY and TESH), 717.

$C_{15}H_{11}O_5Cl_3Sn$ Substance, from stannic chloride and 8-hydroxy-2:3-dimethoxyxanthone (DEAN and NIERENSTEIN), 805.

C_{16} Group.

$C_{16}H_{12}O_6$ 5:7:2′:4′:6′-Pentahydroxy-2-phenyl-4-methylene-1:4-benzopyran (SEN and GHOSH), 62.

$C_{16}H_{14}O_2$ 4:4′-Diacetyldiphenyl, and its condensations with aromatic amines (FERRISS and TURNER), 1140.

$C_{16}H_{18}O$ 2-Hydroxy-αα- and -αγ-diphenylpropane methyl ethers (GREENWOOD and NIERENSTEIN), 1595.

$C_{16}H_{20}N_2$ Camphanodihydroquinoxaline (B. K. and D. SINGH, DUTT, and G. SINGH), 986.

$C_{16}H_{22}O_5$ Ethyl benzylmethoxymethylmalonate (SIMONSEN), 566.

$C_{16}H_{30}O_{11}$ Anhydro-acid from tetramethyl fructose (HAWORTH), 208.

16 III

$C_{16}H_8O_4N_2$ Nitroxanthoquinoline (DHAR), 1066.

$C_{16}H_{12}O_3N_2$ α- and β-Phthalylacetylphenylhydrazides (CHATTAWAY and TESH), 717.

α-Phthalylformyltolylhydrazides (CHATTAWAY and TESH), 718.

$C_{16}H_{13}O_4N_3$ 2:4-Dinitrophenyldihydro-α-naphthylamines (ROWE and LEVIN), 1577.

$C_{16}H_{14}O_2N_2$ α- and β-Phthalylphenylethylhydrazides (CHATTAWAY and TESH), 712.

$C_{16}H_{16}O_2N_4$ Ethylidenebisphenylcarbamide (FARGHER), 679.

$C_{16}H_{18}O_3N_2$ 2:2′-Dimethoxy-3-3′-azoxytoluene (KENNER and PARKIN), 856.

$C_{16}H_{18}O_4AS_2$ 3:4:3′:4′-Tetramethoxyarsenobenzene (FARGHER), 870.

$C_{16}H_{18}O_2N$ *iso*Nitrosocamphor *N*-phenyl ether (FORSTER and SAVILLE), 761.

$C_{16}H_{19}N_2I$ *dl*-Phenylbenzylallylazonium iodide (SINGH), 1212.

$C_{16}H_{20}ON_2$ Phenylbenzylallylazonium hydroxide, salts of, and their resolution (SINGH), 1213.

$C_{16}H_{20}NI$ Phenylbenzylmethylethylammonium iodide, mercuri-iodide of, and its crystallography (BARKER and PORTER), 1320.

$C_{16}H_{20}IAs$ Di-*o*-tolylmethylarsine methiodide (BURROWS and TURNER), 1383.

$C_{16}H_{21}N_2Cl$ Phenylbenzylpropylazonium chloride, and its salts (SINGH), 1207.

$C_{16}H_{21}N_2I$ Phenylbenzylpropylazonium iodide (SINGH), 1207.

$C_{16}H_{22}ON_2$ Phenylbenzylpropylazonium hydroxide, salts of, and their resolution (SINGH), 1208.

16 IV

$C_{16}H_{11}O_3N_2Br$ α-Phthalylacetyl-*p*-bromophenylhydrazide (CHATTAWAY and TESH), 717.

$C_{16}H_{20}ONBr$ Bromophenylaminocamphor, optical rotation of (B. K. and D. Singh, Dutt, and G. Singh), 983.

$C_{16}H_{20}O_4N_2As_2$ Substance, from reduction of 5-amino-3:4-dimethoxyphenylarsinic acid (Fargher), 872.

C_{17} Group.

$C_{17}H_8O_8$ Ketodilactone of benzophenone-2:4:2′:4′-tetracarboxylic acid, and its resolution (Mills and Nodder), 1407.

$C_{17}H_{10}O$ Benzanthrone, properties of, and its salts (Perkin), 696.

$C_{17}H_{10}O_2$ Hydroxybenzanthrone, and its sulphate (Perkin), 698.

$C_{17}H_{10}O_3$ Benzalizarin, and its salts (Perkin), 702.

$C_{17}H_{14}O_6$ 8-Acetoxy-2:3-dimethoxyxanthone (Dean and Nierenstein), 805.

$C_{17}H_{15}N$ Benzylidenedihydro-α-naphthylamines (Rowe and Lewis), 1576.

$C_{17}H_{16}O_4$ Euxanthone diethyl ether, salts of (Perkin), 699.

$C_{17}H_{17}N$ Benzylidene-*ar*-tetrahydro-α-naphthylamine (Rowe and Levin), 1579.

$C_{17}H_{18}O_2$ Benzoyl derivative of *p-sec.*-butylphenol (Reilly and Hickinbottom), 123.

17 III

$C_{17}H_{12}O_5N_4$ 3:5-Dinitrotoluene-2-azo-β-naphthol (Morgan and Drew), 791.

$C_{17}H_{14}O_2N_2$ α- and β-Phthalylphenylallylhydrazides (Chattaway and Tesh), 714.

$C_{17}H_{14}O_3N_2$ α-Phthalylacetyltolylhydrazides (Chattaway and Tesh), 718.

α-Phthalylpropionylphenylhydrazide (Chattaway and Tesh), 717.

$C_{17}H_{14}O_8N_6$ Substance, from naphthylamines and tetryl (James, Jones, and Lewis), 1277.

$C_{17}H_{15}ON_3$ 2-*p*-Benzylideneaminophenyl-5-methyl-4-glyoxalone, and its acetate (Fargher), 679.

$C_{17}H_{16}O_2N_2$ α- and β-Phthalylphenylpropylhydrazides (Chattaway and Tesh), 713.

$C_{17}H_{16}O_6N_4$ 4:3′-Dinitro-2:4′-diacetylaminodiphenylmethane (King), 990.

$C_{17}H_{17}O_4N_3$ Diacetyl derivative of 4-nitro-2:4′-diaminodiphenylmethane (King), 989.

$C_{17}H_{19}ON$ Benzoylamino-*n*-butylbenzenes (Reilly and Hickinbottom), 111.

$C_{17}H_{19}O_2N$ 4-*n*-Butylphenyl phenylcarbamate (Reilly and Hickinbottom), 115.

$C_{17}H_{20}ON_2$ α-Phenyl-β-4-*n*- and *sec.*-butylphenylcarbamides (Reilly and Hickinbottom), 112, 120.

$C_{17}H_{22}O_4N_2$ Phenylhydrazone ($+H_2O$) of α-ketohomocamphoric acid (Chorley and Lapworth), 740.

$C_{17}H_{22}NI$ Phenylbenzyldiethylammonium iodide, mercuri-iodide of, and its crystallography (Barker and Porter), 1320.

Phenylbenzylmethyl-α-propylammonium iodide, mercuri-iodide of, and its crystallography (Barker and Porter), 1321.

$C_{17}H_{23}ON$ Tolylaminocamphor, optical rotation of (B. K. and D. Singh, Dutt, and G. Singh), 982.

$C_{17}H_{23}O_2N$ *o*-Methoxyphenylaminocamphor (B. K. and D. Singh, Dutt, and G. Singh), 985.

$C_{17}H_{23}O_3N$ *cyclo*Heptane-1:1-diacetic acid semianilide (Day, Kon, and Stevenson), 645.

$C_{17}H_{21}ON_3$ Substance, from suberone, ethyl cyanoacetate and ammonia (Day, Kon, and Stevenson), 646.

17 IV

$C_{17}H_{13}O_2N_2Br$ α- and β-Phthalyl-*p*-bromophenylallylhydrazides (Chattaway and Tesh), 715.

$C_{17}H_{14}O_3N_2S$ Phenylcarboxy-*o*-tolyl*iso*thiohydantoin (Dixon and Kennedy), 77.

C_{18} Group.

$C_{18}H_{12}O_2$ Methoxybenzanthrone, and its salts (Perkin), 698.

$C_{18}H_{14}O_7$ 2:3-Diacetoxy-8-methoxyxanthone, preparation of (Dean and Nierenstein), 804.

$C_{18}H_{15}As$ Triphenylarsine, preparation of (Burrows and Turner), 1382; (Pope and Turner), 1447.

$C_{18}H_{15}Bi$ Triphenylbismuthine, molecular weight of, and its salts (Challenger and Goddard), 765.

$C_{18}H_{18}O_6$ 3:5:3′:4′-Tetramethoxy-2-phenylcoumaran-1-one (Nierenstein), 1155.

$C_{18}H_{20}O_7$ 2′-Hydroxy-3:4:4′:6′-tetramethoxydiphenylacetic acid (Nierenstein), 1154.

$C_{18}H_{34}O_2$ Oleic acid, sodium salt, investigations of solutions of, as curd, gel, and sol (Laing and McBain), 1506.

18 III

$C_{18}H_{10}O_5N_4$ 3:4-Dinitroacenaphthenequinone-7-phenylhydrazone (Rowe and Davies), 1351.

$C_{18}H_{11}O_2N_3$ 3-Nitroacenaphthenequinone-7(or 8)-phenylhydrazone (Rowe and Davies), 1350.

$C_{19}H_{12}O_3N_2$ 1-β-Anthraquinonyl-3-methyl-5-pyrazolone (Saunders), 1268.

$C_{18}H_{12}O_3N_4$ 4-β-Anthraquinoneazo-3-methyl-5-pyrazolone (Saunders), 1270.

$C_{18}H_{16}O_2N_2$ α- and β-Phthalyl-*p*-tolylallylhydrazides (Chattaway and Tesh), 716.

$C_{18}H_{16}O_3N_2$ α-Phthalyl-*n*-butyrylphenylhydrazide (Chattaway and Tesh), 717.

$C_{18}H_{19}O_2N_3$ Benzoyl derivative of camphorquinonecyanohydrazone (Forster and Saville), 756.

$C_{18}H_{21}O_5Cl$ 3:4:2′:4′:6′-Pentamethoxydiphenylmethyl chloride (Nierenstein), 978.

18 IV

$C_{18}H_{15}O_3N_4B$ Boro-α-phenylhydrazidobenzeneazophenol, and its hydrochloride (Chaudhuri), 1085.

C_{19} Group.

$C_{19}H_{14}O_3$ Dimethoxybenzanthrone, and its salts (Perkin), 703.

$C_{19}H_{16}N_2$ *o*-Aminocinnamylidenequinaldine, and its dihydrochloride (Mills and Evans), 1038.

$C_{19}H_{20}O_2$ Benzoyl derivative of 1-phenyl*cyclo*hexan-3-ol (Boyd, Clifford, and Probert), 1388.

$C_{19}H_{32}O_7$ 3:4:2′:4′:6′-Pentamethoxydiphenylacetic acid, and its sodium salt (Nierenstein), 977.

2:4:6:3′:4′-Pentamethoxydiphenylmethane-3-carboxylic acid (Nierenstein), 975.

$C_{19}H_{24}O_5$ 2′-Hydroxy-3:4:4′:6′-tetramethoxy-αα-diphenylpropane (NIERENSTEIN), 1154.

$C_{19}H_{28}O_3$ *l*-Menthyl atrolactinates, and their hydrolysis (MCKENZIE and WREN), 686.

l-Menthyl *d*-α-hydroxy-β-phenylpropionate, and its hydrolysis (MCKENZIE and WREN), 690.

19 III

$C_{19}H_{12}O_2N$ Anilinoxanthone (DHAR), 1068.

$C_{19}H_{14}O_2N_2$ *p*-Nitrocinnamylidenequinaldine (MILLS and EVANS), 1038.

$C_{19}H_{17}O_8N_3$ Triacetyl derivative of azo-colouring matter $C_{13}H_{11}O_5N_3$ (MORGAN and DREW), 791.

$C_{19}H_{18}O_4N_2$ 4-β-Anthraquinoneazo-3-methyl*iso*oxazolone (SAUNDERS), 1272.

$C_{19}H_{19}O_4N$ *o*-Nitrobenzoyl derivative of 1-phenyl*cyclo*hexan-3-ol (BOYD, CLIFFORD, and PROBERT), 1388.

$C_{19}H_{21}O_6Cl$ 3:4:2′:4′:6′-Pentamethoxydiphenylacetyl chloride (NIERENSTEIN), 1153.

C_{20} Group.

$C_{20}H_{14}O_4$ Phenolphthalein, preparation of (COPISAROW), 212.

$C_{20}H_{16}O$ 4-Diphenylyl benzyl ketone (FERRISS and TURNER), 1148.

$C_{20}H_{22}O_6$ 2′-Acetoxy-3:4:4′:6′-tetramethoxydiphenylacetic acid (NIERENSTEIN), 1155.

$C_{20}H_{24}O_6$ 2:4:6-Trimethoxyphenyl 3:4-dimethoxy-β-phenylethyl ketone (NIERENSTEIN), 976.

$C_{20}H_{24}O_7$ Methyl 3:4:2′:4′:6′-pentamethoxydiphenylacetate (NIERENSTEIN), 978.

Methyl 2:4:6:3′:4′-pentamethoxydiphenylmethane-3-carboxylate (NIERENSTEIN), 976.

$C_{20}H_{26}O_5$ 3:4:2′:4′:6′-Pentamethoxy-αα-, and -αγ-diphenylpropanes (NIERENSTEIN), 976, 1153.

2:4:6:3′:4′-Pentamethoxy-3-ethyldiphenylmethane (NIERENSTEIN), 975.

$C_{20}H_{26}O_6$ 2:4:6:3′:4′-Pentamethoxy-3-ethyldiphenylcarbinol (NIERENSTEIN), 974.

$C_{20}H_{27}N_3$ Diazoamino-4-*n*-butylbenzene (REILLY and HICKINBOTTOM), 113.

20 III

$C_{20}H_{14}O_3N_2$ Azine, from 8-hydroxy-2:3-quinoxanthone and 3:4-tolylenediamine (DEAN and NIERENSTEIN), 803.

$C_{20}H_{18}ON_2$ *o*-Formylaminocinnamylidenequinaldine (MILLS and EVANS), 1038.

$C_{20}H_{16}O_5N_2$ Ethyl β-anthraquinoneazoacetoacetate (SAUNDERS), 1271.

$C_{20}H_{19}O_6N_5$ Substance, from *m*-toluidine and tetryl (JAMES, JONES, and LEWIS), 1276.

$C_{20}H_{19}N_2I$ *o*-Aminocinnamylidenequinaldine methiodide (MILLS and EVANS), 1040.

$C_{20}H_{20}ON_2$ 4-*n*-Butylbenzeneazo-β-naphthol (REILLY and HICKINBOTTOM), 113.

$C_{20}H_{20}O_2N_2$ 4-*n*-Butylbenzeneazo-2:7-dihydroxynaphthalene (REILLY and HICKINBOTTOM), 114.

$C_{20}H_{21}IAs$ Diphenylmethylarsine benziodide (BURROWS and TURNER), 1381.

$C_{20}H_{22}O_2N_2$ 4-*n*-Butylbenzeneazobenzoylacetone (REILLY and HICKINBOTTOM), 114.

$C_{20}H_{23}ON$ α- and β-Naphthylaminocamphor, optical rotation of (B. K. and D. SINGH, DUTT, and G. SINGH), 986.

$C_{20}H_{23}O_6Cl$ 3:4:2′:4′:6′-Pentamethoxydiphenylmethyl chloromethyl ketone (NIERENSTEIN), 1153.

$C_{20}H_{24}O_2N_2$ Quinine, ferrocyanides of (BRIGGS), 1034.

$C_{20}H_{25}ON$ *ar*-Tetrahydro-α-naphthyliminocamphor, preparation and rotation of (B. K. and D. SINGH, DUTT, and G. SINGH), 987.

$C_{20}H_{27}ON$ *ar*-Tetrahydro-α-naphthylaminocamphor (B. K. and D. SINGH, DUTT, and G. SINGH), 987.

20 V

$C_{20}H_{21}ON_4Cl_2Co$ Dichlorotetrapyridinecobalt hydroxide, salts of (PRICE), 860.

C_{21} Group.

$C_{21}H_{14}O_5$ Diacetoxybenzanthrone (PERKIN), 701.

$C_{21}H_{21}As$ Tri-*o*-tolylarsine (BURROWS and TURNER), 1382.

$C_{21}H_{22}O_5$ Apigenin triethyl ether, salts of (PERKIN), 699.

$C_{21}H_{28}O_6$ Methyl derivative of 2:4:6:3′:4′-pentamethoxy-3-ethyldiphenylcarbinol (NIERENSTEIN), 974.

21 III

$C_{21}H_{13}N_2Cl$ Chloromethylbenzophenanthrazines (MORGAN and DREW), 789.

$C_{21}H_{18}ON_2$ *o*-Acetylaminocinnamylidenequinaldine (MILLS and EVANS), 1039.

$C_{21}H_{18}O_2N_2$ Carboxymethylaminocinnamylidenequinaldine (MILLS and EVANS), 1039.

$C_{21}H_{21}O_6N_3$ Tetra-acetyl derivative of 4-nitro-2:4′-diaminodiphenylmethane (KING), 990.

$C_{21}H_{23}O_2N_3$ Dianilide of *trans-cyclo*pentane*spirocyclo*propane-1:2-dicarboxylic acid (BECKER and THORPE), 1587.

$C_{21}H_{26}O_4N_2$ Ethyl 4-*p*-dimethylaminophenyl-2:6-dimethylpyridinedicarboxylate, and its potassium salt (HINKEL and CREMER), 139.

$C_{21}H_{28}O_4N_2$ Ethyl 4-*p*-dimethylaminophenyl-2:6-dimethyl-1:4-dihydropyridine-3:5-dicarboxylate, and its salts (HINKEL and CREMER), 138.

21 IV

$C_{21}H_{13}O_3N_2Br$ α-Phthalylbenzoyl-*p*-bromophenylhydrazide (CHATTAWAY and TESH) 718.

C_{22} Group.

$C_{22}H_{16}O_2$ 2:7-Dimethylfluoran, preparation of (COPISAROW), 215.

$C_{22}H_{18}O_4$ *o*-Cresolphthalein, preparation of (COPISAROW), 214.

$C_{22}H_{28}O_7$ Acetyl derivative of 2:4:6:3′:4′-pentamethoxy-3-ethyldiphenylcarbinol (NIERENSTEIN), 974.

22 III

$C_{22}H_{16}O_2N_2$ α-Phthalylbenzoyltolylhydrazides (CHATTAWAY and TESH), 718.

$C_{22}H_{17}Br_2Bi$ Diphenyl-α-naphthylbismuthine dibromide (CHALLENGER and GODDARD), 772.

$C_{22}H_{20}ON_2$ Benzoyl*iso*propylidenebenzidine (FERRIS and TURNER), 1146.

$C_{22}H_{24}IAs$ Tri-*o*-tolylarsine methiodide (BURROWS and TURNER), 1382.

22 IV

$C_{22}H_{21}ON_2I$ Acetylaminocinnamylidenequinaldine methiodide (Mills and Evans), 1039.

C_{23} Group.

$C_{23}H_{26}O_6$ Luteolin tetraethyl ether, salts of (Perkin), 699.

23 III

$C_{23}H_{12}O_7N_4$ Dinitroxanthoneazo-β-naphthol (Dhar), 1064.

C_{24} Group.

$C_{24}H_{22}N_2$ 2:3-Diphenyl-6-*n*-butylquinoxaline (Reilly and Hickinbottom), 118.

$C_{24}H_{24}N_2$ 2:4:8:2′:4′:8′-Hexamethyl-6:6′-diquinolyl, and its platinichloride (Ferris and Turner), 1146.

$C_{24}H_{38}O_6$ Dibornyl tartrates (Wren, Williams, and Myddleton), 193.

$C_{24}H_{50}O$ Alcohol, from *Hyenanche globosa* (Henry), 1624.

24 III

$C_{24}H_{13}O_5N_3$ 3-Nitroanthraquinone-1-azo-β-naphthol (Dhar), 1003.

$C_{24}H_{16}O_2N_4$ 4-Benzeneazo-1-β-anthraquinonyl-3-methyl-5-pyrazolone (Saunders), 1268.

$C_{24}H_{24}ON_2$ Benzoyl*iso*propylidenetolidine (Ferriss and Turner), 1147.

$C_{24}H_{28}O_2N_2$ Diacetyl*iso*propylidenetolidine (Ferriss and Turner), 1146.

C_{25} Group.

$C_{25}H_{25}O_3N_3$ Tribenzoyl derivative of diethylenetriamine (Fargher), 1354.

$C_{25}H_{25}N_2Br$ 1:1′-Diethylcarbocyanine bromide (Mills and Hamer), 1558.

$C_{25}H_{25}N_2I$ 1:1′-Diethylcarbocyanine iodide (Mills and Hamer), 1557.

25 IV

$C_{23}H_{23}O_4N_4Br$ Substance ($+2H_2O$) from oxidation of 1:1′-diethylcarbocyanine bromide with nitric acid (Mills and Hamer), 1561.

C_{26} Group.

$C_{26}H_{22}O_{11}$ Acetyl derivative of 5:7:2′:4′:6′-pentahydroxy-2-phenyl-4-methylene-1:4-benzopyran (Sen and Ghosh), 62.

$C_{26}H_{25}N_3$ 4-*n*-Butylbenzeneazophenyl-β-naphthylamine (Reilly and Hickinbottom), 113.

$C_{28}H_{52}O_2$ Acetyl derivative of alcohol $C_{24}H_{50}O$ (Henry), 1624.

26 III

$C_{26}H_{25}O_3N_3$ Acetyl*iso*propylidenetolidine (Ferriss and Turner), 1145.

$C_{26}H_{26}O_2N_2$ *m*-Phenylenebisaminocamphor (B. K. and D. Singh, Dutt, and G. Singh), 985.

C_{27} Group.

$C_{27}H_{34}O_8$ Myricetin hexaethyl ether, salts of (Perkin), 699.

27 III

$C_{27}H_{28}O_2N_2$ Acetyl*iso*propylidenebenzoyl*iso*propylidenebenzidine (Ferriss and Turner), 1146.

$C_{27}H_{34}O_2N_2$ *m*-Tolylenebisiminocamphor, preparation and rotation of (B. K. and D. Singh, Dutt, and G. Singh), 984.

$C_{27}H_{36}O_2N_2$ *m*-Tolylenebisaminocamphor, preparation and rotation of (B. K. and D. Singh, Dutt, and G. Singh), 985.

C_{28} Group.

$C_{28}H_{24}$ Dimethyl-9:10-diphenyl-9:10-dihydroanthracene (RÂY), 1338.

28 II

$C_{28}H_{16}O_3$ α- and β-Naphthafluorans, and α-Naphtholphthaleins, preparation of (COPISAROW), 216.

$C_{28}H_{22}O_2$ 4:4′-Diphenyldiacetyldiphenyl (FERRISS and TURNER), 1150.

$C_{28}H_{24}O_2$ Diacetyl derivative of 9:10-diphenyl-9:10-dihydroanthracene (RÂY), 1337.

$C_{28}H_{48}O$ Phytosterol from *Hyenanche globosa* (HENRY), 1624.

28 III

$C_{28}H_{18}O_3N_4$ 4-β-Anthraquinoneazo-1-β-naphthyl-3-methyl-5-pyrazolone (SAUNDERS), 1271.

4-α-and-β-Naphthaleneazo-1-β-anthraquinonyl-3-methyl-5-pyrazolones (SAUNDERS), 1269.

C_{30} Group.

$C_{30}H_{28}$ Dimethyl-9:10-ditolyl-9:10-dihydroanthracene (RÂY), 1338.

30 II

$C_{30}H_{48}O_2$ Acetyl derivative of phytosterol $C_{28}H_{46}O$ (HENRY), 1624.

30 III

$C_{30}H_{21}Cl_2Bi$ Tri-α-naphthylbismuthine dichloride (CHALLENGER and GODDARD), 772.

$C_{30}H_{34}O_2N_2$ 1:4-Naphthylenebisiminocamphor (B. K. and M. SINGH), 1599.

C_{31} Group.

$C_{31}H_{24}O_4N_4$ Phthalylphenyltrimethylenebishydrazide (CHATTAWAY and TESH), 714.

C_{32} Group.

$C_{32}H_{18}O_3N_4$ 4-β-Anthraquinoneazo-1β-anthraquinonyl-3-methyl-5-pyrazolone (SAUNDERS), 1269.

C_{37} Group.

$C_{37}H_{25}N_3$ Tri-3-carbazylmethane (COPISAROW), 1546.

37 III

$C_{37}H_{24}N_3Cl$ Tri-3-carbazylcarbinyl chloride (COPISAROW), 1546.

$C_{37}H_{25}ON_3$ Tri-3-carbazylcarbinol (COPISAROW), 1545.

C_{38} Group.

$C_{38}H_{28}$ 9:9:10:10-Tetraphenyl-9:10-dihydroanthracene (RÂY), 1339.

38 III

$C_{38}H_{25}O_2N_3$ Carbazole-blue or Tri-3-carbazylcarbinyl formate (COPISAROW), 1546.

C_{43} Group.

$C_{43}H_{37}N_3$ Tri-9-ethyltri-3-carbazylmethane (COPISAROW), 1548.

43 III

$C_{43}H_{36}N_3Cl$ Tri-9-ethyltri-3-carbazylcarbinyl chloride (COPISAROW), 1548.

$C_{43}H_{37}ON_3$ Tri-9-ethyltri-3-carbazylcarbinol (COPISAROW), 1549.

C_{44} Group.

$C_{44}H_{37}O_2N_3$ Carbazole-violet or Tri-9-ethyltri-3-carbazylcarbinyl formate (COPISAROW), 1547.